

CLAIMS

What is claimed as invention is:

1. A hammer wrench assembly comprising:

5 a hammer wrench having a hammer-end, a wrench-end and a central bar member separating the hammer-end and the wrench-end; and,

a rotatable handle pivotally coupled to the hammer wrench between the hammer-end and the wrench-end for holding the hammer wrench about a nut as the hammer-end is impacted
10 with a hammer.

2. The assembly of CLAIM 1, wherein:

the hammer wrench further comprises a female fitting;
and,

the rotatable handle comprises a pivotal male fitting
15 removably coupleable to the female fitting.

3. The assembly of CLAIM 2, wherein the female fitting has a first bore hole having a center axis that is aligned with a center axis of the wrench-end; and,

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4. The assembly of CLAIM 3, wherein said first bore hole is perpendicular to a longitudinal center axis of the central bar member.

5. The assembly of CLAIM 3, wherein the female fitting
5 has a second bore hole penetrating to said first bore hole.

6. The assembly of CLAIM 5, wherein the female fitting has a third bore hole penetrating to said first bore hole and having a same axis with, and being opposite to, said second bore hole.

10 7. The assembly of CLAIM 6, wherein said same axis of said second bore hole and said third bore hole is perpendicular to the center axis of the first bore hole.

8. The assembly of CLAIM 6, wherein the male fitting comprises:

15 a prong adapted to mate with the first bore hole; and,

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a spring-biased ball coupled to the prong for securing the prong in the first bore hole, the spring-biased ball removably coupleable to either the second bore hole or the third bore hole.

5 9. The assembly of CLAIM 5, wherein the rotatable handle comprises:

an elongated central bar member;

a handle section integrally coupled to one end of the elongated central bar member; and,

10 a forked-end having two parallel plates for pivotally coupling therebetween the male fitting.

10. The assembly of CLAIM 9, wherein the handle section comprises a slip-resistant surface; and,

the hammer-end comprises a plurality of impact surfaces.

15 11. The assembly of CLAIM 5, wherein the male fitting comprises:

a prong adapted to mate with the first bore hole; and,

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a spring-biased ball coupled to the prong for securing the prong in the first bore hole, the spring-biased ball removably coupleable to the second bore hole.

12. The assembly of CLAIM 3, wherein the rotatable
5 handle comprises:

an elongated central bar member;

a handle section integrally coupled to one end of the elongated central bar member; and,

a forked-end having two parallel plates for pivotally
10 coupling therebetween the male fitting.

13. The assembly of CLAIM 12, wherein:

the handle section comprises a slip-resistant surface;
and,

the hammer-end comprises a plurality of impact surfaces.

15 14. The assembly of CLAIM 2, wherein said female fitting is closer to said wrench-end than to said hammer-end.

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15. The assembly of CLAIM 2, wherein said female fitting is just below said wrench-end.

16. The assembly of CLAIM 1, wherein the wrench-end
5 comprises a multi-sided bore hole.

17. The assembly of CLAIM 1, wherein the wrench-end comprises a hexagonal-shaped bore hole.

18. The assembly of CLAIM 1, wherein the wrench-end is
10 displaced below the longitudinal axis of the central bar member.

19. The assembly of CLAIM 1, wherein the rotatable handle is rotatable approximately 180°.

15 20. A hammer wrench assembly for fastening or unfastening a nut comprising:

a hammer wrench having a hammer-end, a wrench-end and a central bar member separating the hammer-end and the wrench-end;

a female fitting formed in the central bar member in close proximity to the wrench-end; and,

a safety handle pivotally coupled to the female fitting via a male fitting, wherein pivoting the handle moves a user's hand from the proximity of the hammer end.

21. The assembly of CLAIM 20, wherein the female fitting has a first bore hole having a center axis that is aligned with a center axis of the wrench-end; and,

22. The assembly of CLAIM 21, wherein said first bore hole is perpendicular to a longitudinal center axis of the central bar member.

23. The assembly of CLAIM 21, wherein the female fitting has a second bore hole penetrating to said first bore hole.

24. The assembly of CLAIM 23, wherein the female fitting has a third bore hole penetrating to said first bore hole and having a same axis with, and being opposite to, said

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second bore hole.

25. The assembly of CLAIM 24, wherein said same axis of said second bore hole and said third bore hole is perpendicular to the center axis of the first bore hole.

5 26. The assembly of CLAIM 24, wherein the male fitting comprises:

 a prong adapted to mate with the first bore hole; and,
 a spring-biased ball coupled to the prong for securing
the prong in the first bore hole, the spring-biased ball
10 removably coupleable to either the second bore hole or the
third bore hole.

27. The assembly of CLAIM 23, wherein the rotatable handle comprises:

 an elongated central bar member;
15 a handle section integrally coupled to one end of the
elongated central bar member; and,
 a forked-end having two parallel plates for pivotally
coupling therebetween the male fitting.

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28. The assembly of CLAIM 27, wherein the handle section comprises a slip-resistant surface; and, the hammer-end comprises a plurality of impact surfaces.

29. The assembly of CLAIM 23, wherein the male fitting
5 comprises:

a prong adapted to mate with the first bore hole; and,
a spring-biased ball coupled to the prong for securing the prong in the first bore hole, the spring-biased ball removably coupleable to the second bore hole.

10 30. The assembly of CLAIM 21, wherein the rotatable handle comprises:

an elongated central bar member;
a handle section integrally coupled to one end of the elongated central bar member; and,

15 a forked-end having two parallel plates for pivotally coupling therebetween the male fitting.

31. The assembly of CLAIM 30, wherein:

the handle section comprises a slip-resistant surface;

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and,

the hammer-end comprises a plurality of impact surfaces.

32. The assembly of CLAIM 20, wherein said female fitting is closer to said wrench-end than to said hammer-end.

5 33. The assembly of CLAIM 20, wherein said female fitting is just below said wrench-end.

34. The assembly of CLAIM 20, wherein the wrench-end comprises a multi-sided bore hole.

10 35. The assembly of CLAIM 20, wherein the wrench-end comprises a hexagonal-shaped bore hole.

36. The assembly of CLAIM 20, wherein the wrench-end is displaced below the longitudinal axis of the central bar member.

15 37. The assembly of CLAIM 20, wherein the safety handle is rotatable approximately 180°.

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38. A method for fastening or unfastening a nut, using
a hammer wrench assembly having a hammer wrench with a
hammer-end and a wrench end and a pivotal safety handle
pivotally coupleable to the hammer wrench in close proximity
5 to the wrench-end, comprising the steps of:

coupling a wrench-end of the hammer wrench about the
nut;

pivoting the safety handle to a location displaced away
from the hammer-end;

10 holding the wrench-end about the nut via the safety
handle;

simultaneously with the holding step, swinging a hammer
to impact the hammer-end; and,

rotating the nut with the wrench-end in a direction to
15 fasten or unfasten the nut, in response to the impact to the
hammer-end.

39. The method of CLAIM 38, wherein the pivoting step
includes the step of:

pivoting the safety handle to a location within
20 approximately a 180° range.

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40. The method of CLAIM 38, wherein:

the pivoting and holding steps are performed by a first user; and,

the swinging step is performed by a second user.

5 41. The method of CLAIM 38, wherein:

the pivoting, holding and swinging steps are performed by a single user.

42. An improved hammer wrench comprising:

a hammer-end having a plurality of impact surfaces;

10 a wrench-end adapted to attach to a bolt head or nut;
and,

a central bar member with one end integrally formed with the hammer-end, with another end attached to the wrench-end and with a female coupler between the wrench-end and the
15 hammer-end wherein the female coupler is in close proximity to the wrench-end.

43. The improved hammer wrench of CLAIM 42, wherein the female coupler has a first bore hole having a center axis

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that is aligned with a center axis of the wrench-end; and,

44. The improved hammer wrench of CLAIM 43, wherein said first bore hole is perpendicular to a longitudinal center axis of the central bar member.

5 45. The improved hammer wrench of CLAIM 43, wherein said first bore hole has a mounting face which faces a same direction a wrench-end face of said wrench-end.

 46. The improved hammer wrench of CLAIM 43, wherein the female coupler has a second bore hole penetrating to said
10 first bore hole.

 47. The improved hammer wrench of CLAIM 46, wherein the female coupler has a third bore hole penetrating to said first bore hole and having a same axis with, and being opposite to, said second bore hole.

15 48. The improved hammer wrench of CLAIM 47, wherein said same axis of said second bore hole and said third bore

hole is perpendicular to the center axis of the first bore hole.

49. The wrench of CLAIM 46, wherein:

the female coupler is adapted to receive a male fitting
5 attached to a safety handle.

50. The improved hammer wrench of CLAIM 49, wherein the male fitting comprises:

a prong adapted to mate with the first bore hole; and,
a spring-biased ball coupled to the prong for securing
10 the prong in the first bore hole, the spring-biased ball removably coupleable to the second bore hole.

51. The improved hammer wrench of CLAIM 42, wherein said female coupler is closer to said wrench-end than to said hammer-end.

15 52. The improved hammer wrench of CLAIM 42, wherein said female coupler is just below said wrench-end.

53. The improved hammer wrench of CLAIM 42, wherein the wrench-end comprises a multi-sided bore hole.

54. The improved hammer wrench of CLAIM 42, wherein the wrench-end comprises a hexagonal-shaped bore hole.

5 55. The improved hammer wrench of CLAIM 42, wherein the wrench-end is displaced below a longitudinal axis of the central bar member.

56. An improved hammer wrench comprising:
a hammer wrench with a hammer-end and a wrench-end;
10 a coupling means for removably coupling a handle to said hammer wrench in close proximity to said wrench-end.

57. The improved hammer wrench of CLAIM 56 wherein said coupling means comprises a female fitting for receiving a mated male fitting attached to said handle.

15 58. The improved hammer wrench of CLAIM 57, wherein the female fitting has a first bore hole having a center axis

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that is aligned with a center axis of the wrench-end.

59. The improved hammer wrench of CLAIM 58, wherein said first bore hole is perpendicular to a longitudinal center axis of the hammer wrench.

5 60. The improved hammer wrench of CLAIM 58, wherein the female fitting has a second bore hole penetrating to said first bore hole.

61. The improved hammer wrench of CLAIM 60, wherein the female fitting has a third bore hole penetrating to said first bore hole and having a same axis with, and being
10 opposite to, said second bore hole.

62. The improved hammer wrench of CLAIM 61, wherein said same axis of said second bore hole and said third bore hole is perpendicular to the center axis of the first bore
15 hole.

63. The improved hammer wrench of CLAIM 61, wherein the

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male fitting comprises:

a prong adapted to mate with the first bore hole; and,
a spring-biased ball coupled to the prong for securing
the prong in the first bore hole, the spring-biased ball
5 removably coupleable to either the second bore hole or the
third bore hole.

64. The improved hammer wrench of CLAIM 57, wherein the
male fitting comprises:

a prong adapted to mate with the first bore hole; and,
10 a spring-biased ball coupled to the prong for securing
the prong in the first bore hole, the spring-biased ball
removably coupleable to the second bore hole.

65. The improved hammer wrench of CLAIM 56, wherein
said female fitting is closer to said wrench-end than to said
15 hammer-end.

66. The improved hammer wrench of CLAIM 56, wherein
said coupling means is just below said wrench-end.

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67. The improved hammer wrench of CLAIM 56, wherein the wrench-end comprises a multi-sided bore hole.

68. The improved hammer wrench of CLAIM 56, wherein the wrench-end comprises a hexagonal-shaped bore hole.

5 69. The improved hammer wrench of CLAIM 56, wherein the wrench-end is displaced below a longitudinal axis of the hammer wrench.

70. A hammer wrench assembly comprising:

a hammer wrench with a hammer-end and a wrench-end;

10 a safety holding means for holding said hammer wrench at a safe distance; and,

coupling means for removably coupling said safety holding means to said hammer wrench in close proximity to said wrench-end.

15 71. The assembly of CLAIM 70, wherein said coupling means comprises a receiving means for receiving a mated fitting means attached to said safety holding means.

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72. The assembly of CLAIM 71, wherein said receiving means has a mounting face which faces in a same direction as a wrench-end face of the wrench-end.

73. The assembly of CLAIM 72, wherein said holding means comprises a tool means for tool-use with socket sets.

74. The assembly of CLAIM 73, wherein said holding means comprises a slip-resistant surface.

75. The assembly of CLAIM 72, wherein said receiving means comprises means for attaching handles for use with socket sets to items in socket sets.

76. The assembly of CLAIM 70, wherein the holding means is rotatable approximately 180°.

77. The assembly of CLAIM 70, wherein the wrench-end comprises a multi-sided bore hole.

78. The assembly of CLAIM 70, wherein the wrench-end

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comprises a hexagonal-shaped bore hole.

79. The assembly of CLAIM 70, wherein the wrench-end is displaced below a longitudinal axis of the hammer wrench.

80. An improved hammer wrench comprising:

5

an anvil;

a nut socket; and,

10

a central bar member with said anvil on one end, with said nut socket on another and opposite end and with a fitting for a safety handle between said anvil and said nut socket.

81. The improved hammer wrench of CLAIM 80, wherein the fitting has a first bore hole having a center axis that is aligned with a center axis of the nut socket.

82. The improved hammer wrench of CLAIM 81, wherein
15 said first bore hole is perpendicular to a longitudinal center axis of the central bar member.

83. The improved hammer wrench of CLAIM 81, wherein the fitting has a second bore hole penetrating to said first bore hole.

84. The improved hammer wrench of CLAIM 83, wherein the
5 fitting has a third bore hole penetrating to said first bore hole and having a same axis with, and being opposite to, said second bore hole.

85. The improved hammer wrench of CLAIM 84, wherein
10 said same axis of said second bore hole and said third bore hole is perpendicular to the center axis of the first bore hole.

86. The improved hammer wrench of CLAIM 80, wherein the nut socket is displaced below a longitudinal axis of the central bar member.

15 87. The improved hammer wrench of CLAIM 80, wherein said fitting is closer to said nut socket than to said anvil.

88. The improved hammer wrench of CLAIM 80, wherein said fitting is just below said nut socket.

89. An improved hammer wrench comprising:

a hammer wrench with a hammer-end and a wrench-end; and,

5 a female fitting disposed in said hammer wrench between said hammer-end and said wrench-end.

90. The improved hammer wrench of CLAIM 89, wherein the female fitting has a first bore hole having a center axis that is aligned with a center axis of the wrench-end.

10 91. The improved hammer wrench of CLAIM 90, wherein said first bore hole is perpendicular to a longitudinal center axis of the hammer wrench.

92. The improved hammer wrench of CLAIM 90, wherein the female fitting has a second bore hole penetrating to said
15 first bore hole.

93. The improved hammer wrench of CLAIM 92, wherein the female fitting has a third bore hole penetrating to said first bore hole and having a same axis with, and being opposite to, said second bore hole.

5 94. The improved hammer wrench of CLAIM 93, wherein said same axis of said second bore hole and said third bore hole is perpendicular to the center axis of the first bore hole.

 95. The improved hammer wrench of CLAIM 89, wherein the
10 wrench-end is displaced below a longitudinal axis of the hammer wrench.

 96. The improved hammer wrench of CLAIM 89, wherein said female fitting is closer to said wrench-end than to said hammer-end.

15 97. The improved hammer wrench of CLAIM 89, wherein said female fitting is just below said wrench-end.

98. An improved hammer wrench comprising:
a hammer wrench with a hammer-end and a wrench-end; and,
a fitting for a safety handle disposed in said hammer
wrench between said hammer-end and said wrench-end.

5 99. The improved hammer wrench of CLAIM 98, wherein the
fitting has a first bore hole having a center axis that is
aligned with a center axis of the wrench-end.

100. The improved hammer wrench of CLAIM 99, wherein
said first bore hole is perpendicular to a longitudinal
10 center axis of the hammer wrench.

101. The improved hammer wrench of CLAIM 99, wherein the
fitting has a second bore hole penetrating to said first bore
hole.

102. The improved hammer wrench of CLAIM 101, wherein
15 the fitting has a third bore hole penetrating to said first
bore hole and having a same axis with, and being opposite to,
said second bore hole.

103. The improved hammer wrench of CLAIM 102, wherein said same axis of said second bore hole and said third bore hole is perpendicular to the center axis of the first bore hole.

5 104. The improved hammer wrench of CLAIM 98, wherein the wrench-end is displaced below a longitudinal axis of the hammer wrench.

10 105. The improved hammer wrench of CLAIM 98, wherein said fitting is closer to said wrench-end than to said hammer-end.

106. The improved hammer wrench of CLAIM 98, wherein said fitting is just below said wrench-end.

107. An improved hammer wrench comprising:
an anvil;
15 a nut socket; and,
a central bar member with said anvil on one end, with

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said nut socket on another and opposite end and with a female fitting between said anvil and said nut socket.

108. The improved hammer wrench of CLAIM 107, wherein the female fitting has a first bore hole having a center axis
5 that is aligned with a center axis of the nut socket.

109. The improved hammer wrench of CLAIM 108, wherein said first bore hole is perpendicular to a longitudinal center axis of the central bar member.

110. The improved hammer wrench of CLAIM 108, wherein
10 the female fitting has a second bore hole penetrating to said first bore hole.

111. The improved hammer wrench of CLAIM 110, wherein the female fitting has a third bore hole penetrating to said first bore hole and having a same axis with, and being
15 opposite to, said second bore hole.

112. The improved hammer wrench of CLAIM 111, wherein

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said same axis of said second bore hole and said third bore hole is perpendicular to the center axis of the first bore hole.

113. The improved hammer wrench of CLAIM 107, wherein
5 the nut socket is displaced below a longitudinal axis of the central bar member.

114. The improved hammer wrench of CLAIM 107, wherein said female fitting is closer to said nut socket than to said anvil.

10 115. The improved hammer wrench of CLAIM 107, wherein said female fitting is just below said nut socket.